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From: Robert Law
Sent: Thur 2/28/2013 4:59:38 PM
Subject: Daily Report - SV CWCM High Flow Sampling February 26-27, 2013

This email provides an update of activities conducted on Tuesday and Wednesday February 26-27, 2013 to support the first High Flow event for the small volume chemical water column monitoring sampling program.

Tributaries

All samples were collected from shore.

The three freshwater tributaries were sampled on Tuesday night for the first rising limb sample.

The tributaries were completed on Wednesday. The second rising limb samples were collected early in the morning. The peaks varied with the Second and Third River peaking late morning and the Saddle River peaking late morning/early afternoon. The falling limb samples from Second and Third Rivers were completed immediately following the peak samples and the flows dropped quickly. The Saddle River was sampled on falling limb in mid- to late-afternoon.

River and Bay

Seven sampling boats were operating on Wednesday.

1. The *Big Skimmer* sampled above Dundee Dam and collected three rising limb samples. The vessel was underway at approximately 09:00 from the ramp at Dundee and returned around 22:00. Teams were off the vessel throughout the day to exchange coolers and take breaks.
2. The *Skimmer* sampled at RM 10.2. The vessel was underway twice: first at approximately 09:00 from the CPG dock, returning at 14:30. During the first mobilization, the team collected the first rising limb samples, including an EPA split. The vessel was underway again at 19:00 and returned at approximately 22:30. During this mobilization, the team collected the second rising limb samples.
3. The *Echo Echo* sampled at RM 6.7 and RM 4.2. The vessel was underway at 09:00 from the CPG dock and could not get under a bridge. Sampling for the first rising limb samples was delayed by a few hours, but the samples were collected while the flows were rising. The *Echo Echo* and crew remained on the water, docking at the Burger King to allow crew to rest, then went back to sample the second rising limb samples at 20:00. The boat stated at RM 6.7 and again had to wait several hours for bridge clearance prior to sampling RM 4.2. Once the vessel cleared the bridge, teams completed sampling. The boat was at the CPG dock at approximately 02:30.

4. The *Grace* sampled at RM 1.4 and RM 0. The vessel was underway at 09:00 from the Robbins Reef Yacht Club. Samples were collected for the first rising limb set, and the vessel returned to the dock. The *Grace* was back underway at 19:00 and sampled the second rising limb set of samples, returning to the dock at approximately midnight.
5. The *Echo* sampled at Hackensack River and Newark Bay Northeast. The vessel was underway at 09:00 from the Robbins Reef Yacht Club. Samples were collected for the first rising limb set, and the vessel returned to the dock. The *Echo* was back underway at 19:00 and sampled the second rising limb set of samples, returning to the dock at approximately midnight.
6. The *Osprey* sampled at Newark Bay Northwest and Newark Bay North. The vessel was underway at 09:00 from the Robbins Reef Yacht Club. Samples were collected for the first rising limb set, and the vessel returned to the dock. The *Osprey* was back underway at 19:00 and sampled the second rising limb set of samples, returning to the dock at approximately midnight. EPA collected split samples from Newark Bay North during the first rising limb sample.
7. The *Ready II* sampled at Newark Bay East and Newark Bay South. The vessel was underway at 09:00 from the Robbins Reef Yacht Club. Samples were collected for the first rising limb set, and the vessel returned to the dock. The *Ready II* was back underway at 19:00 and sampled the second rising limb set of samples, returning to the dock at approximately midnight. collected split samples from Newark Bay South during the first rising limb sample.

Sample Times

The projected sample times varied from the original estimate as the river flow predictions were issued at 09:00 for Little Falls. Sampling was pushed back 2 hours to accommodate the slow moving storm.

Tributary sampling times were estimated based on the predictions at Saddle River in Lodi. Once the flows started rising and peaking, actual flows from Second River and Third River were used to finish those tributaries (which peaked sooner than the Saddle River). The Saddle River hydrograph was used to finish the Saddle River.

The time for the second rising limb sampling was moved forward from Thursday at 09:00 to Wednesday at 22:00 based on changes in the projected flows.

QC Samples

CPG MS/MSD samples were collected at RM 10.2 and RM 0.

CPG field duplicates were collected at RM 6.7, Saddle River, and Second River

A Tierra field duplicate sample was collected at Newark Bay Northeast. Equipment blanks were collected by the three tributary teams.

Health and Safety

A Health and Safety briefing was held on each vessel prior to leaving the dock and in the facility.

A small craft advisory was issued for Newark Bay due to winds. OSI captains and crew were aware and prepared. The advisory did not impact sampling.

Personnel worked very long days, although most teams had breaks between sampling. The long days are a H&S concern, and AECOM has modified the schedule for completing the program to maximize the safety of personnel.

In spite of very long days, the crews were cognizant of the increased potential for accidents and NO Health and Safety incidents were noted today.

EPA Oversight

Oversight staff from Louis Berger was on site to split samples at Newark Bay North and Newark Bay South. Oversight staff from CDM-Smith were on site to split samples at the Third River and RM 10.2

Other Activities

Dundee Dam flows exceeded the 3,000 cfs criterion for High Flow at 10:45 and 11:45 on Wednesday.

AECOM received confirmation from dmi to continue and complete the High Flow sampling as criteria for flows were met, per the QAPP.

Shipping

All short hold time samples collected from the tributaries except the falling limb from the Saddle River were shipped today.

All short hold time samples collected from the first rising limb in the River and the Bay sampling were shipped today.

Planned Activities

The timing of the peak of flows at Little Falls will be reviewed at approximately 09:00 on Thursday when the predictions are updated. Staff will stand by for a call at 10:00 to decide sampling time, tentatively set for 12:00. CDM-Smith will be splitting samples at RM 10.2 and RM 6.7 on the peak flow.

Following the peak flow sampling, all staff will demobilize for the weekend. Facility staff will ship all samples where holding times are a concern. Other samples, to the extent space is available, will be held over the weekend.

On Monday morning, sampling will resume. Plans are to sample the falling limb at noon Monday, and again (Dundee only) in the late afternoon or on Tuesday morning.

The Kill van Kull and Arthur Kill will be sampled on Tuesday at on the low (09:01) and high (14:16) tides.

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